

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527736

Luminaire Tested: **GALN-SA2D-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12698 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

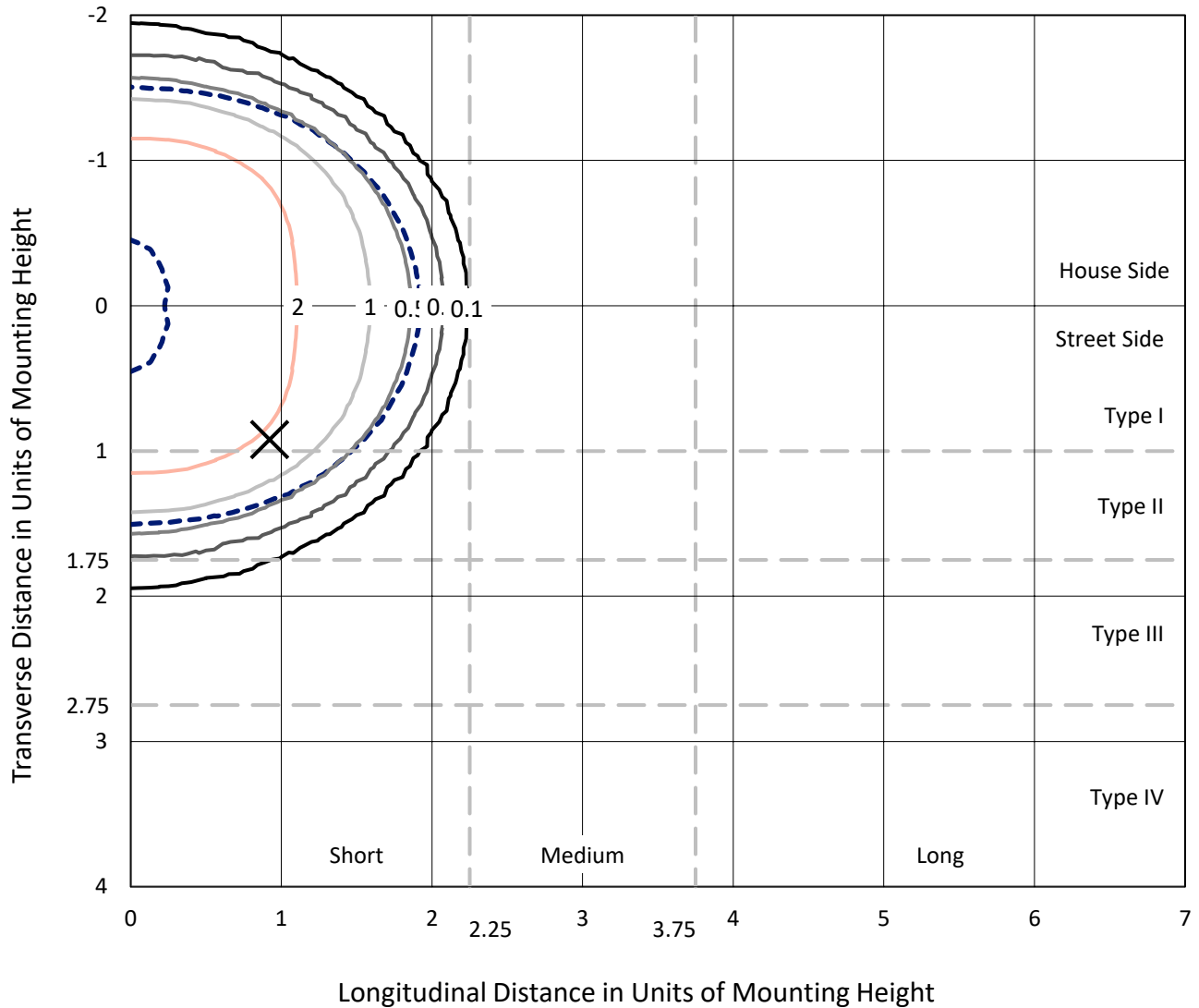
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

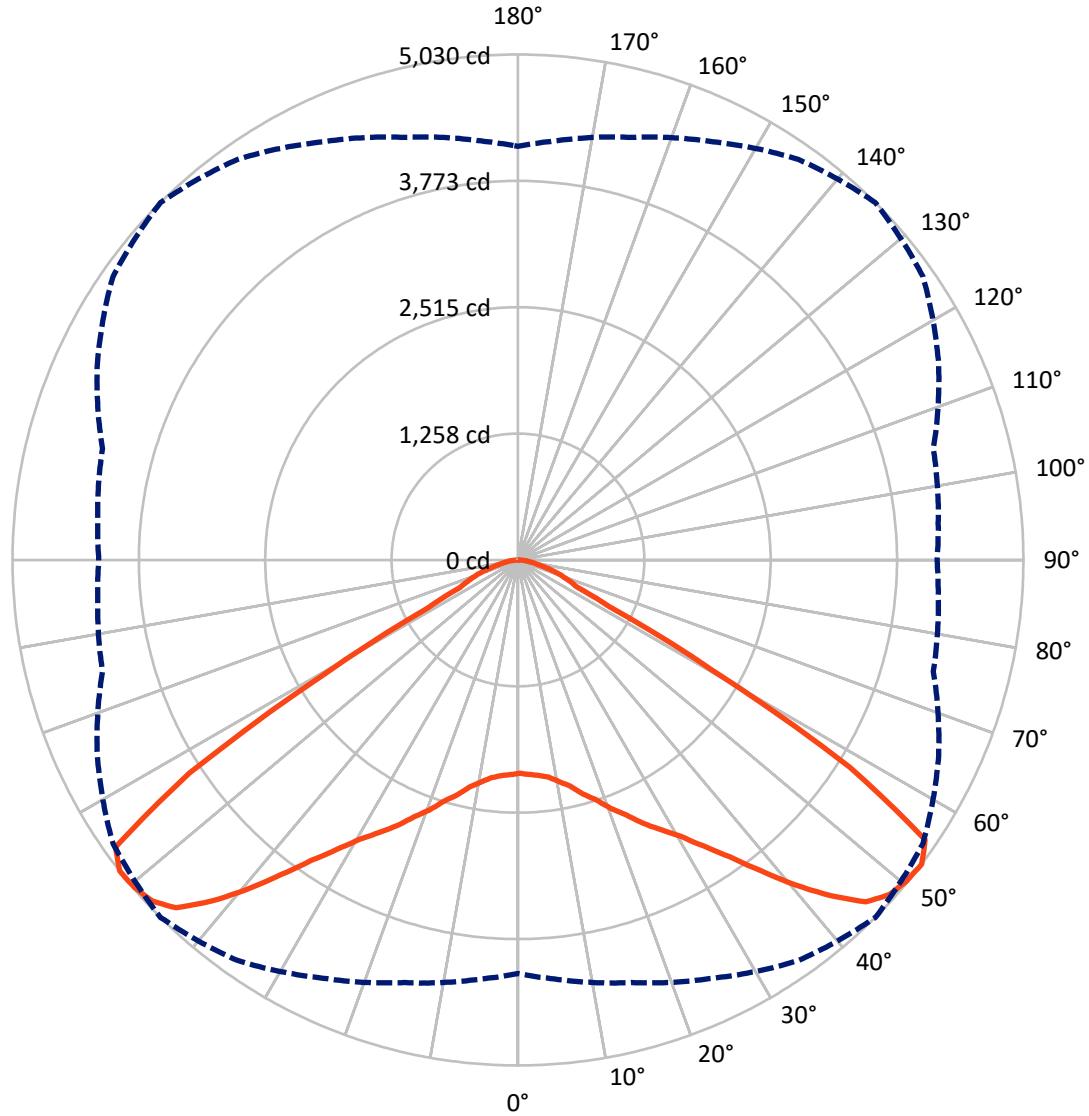
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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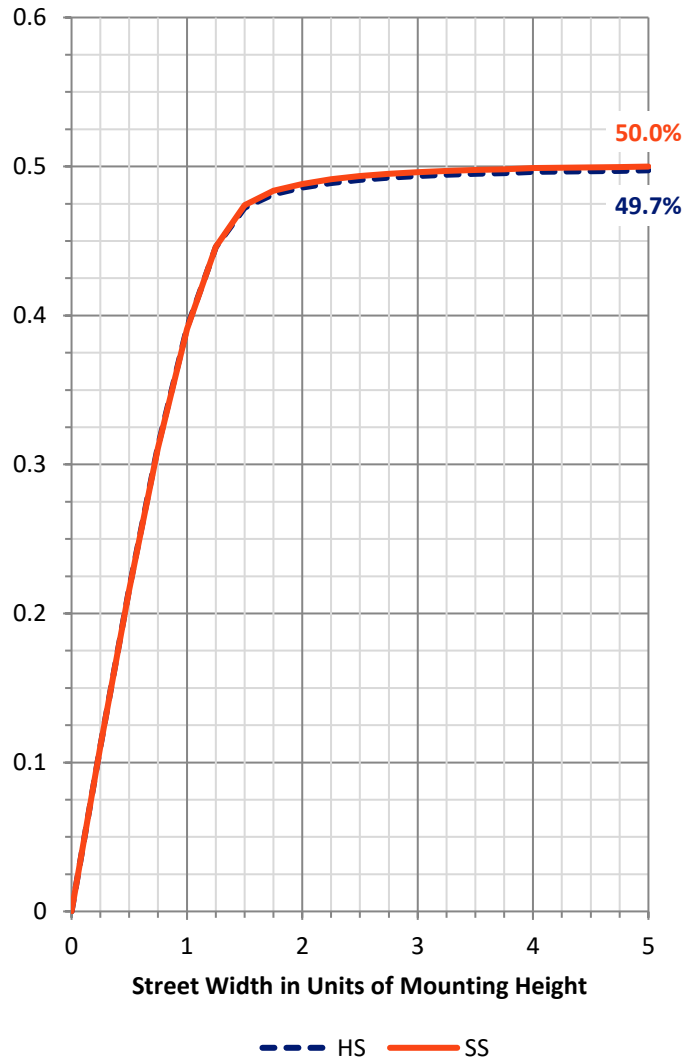
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6349.0 | 0.0 | 6349.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6349.0 | 0.0 | 6349.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12698.0 | 0.0 | 12698.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 208.5 | 1.6 |
| 10°-20° | 685.3 | 5.4 |
| 20°-30° | 1304.6 | 10.3 |
| 30°-40° | 2240.2 | 17.6 |
| 40°-50° | 3443.2 | 27.1 |
| 50°-60° | 3496.5 | 27.5 |
| 60°-70° | 974.4 | 7.7 |
| 70°-80° | 287.4 | 2.3 |
| 80°-90° | 57.9 | 0.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 12698.0 | 100.0 |
| 0°-180° | 12698.0 | 100.0 |

Coefficient of Utilization



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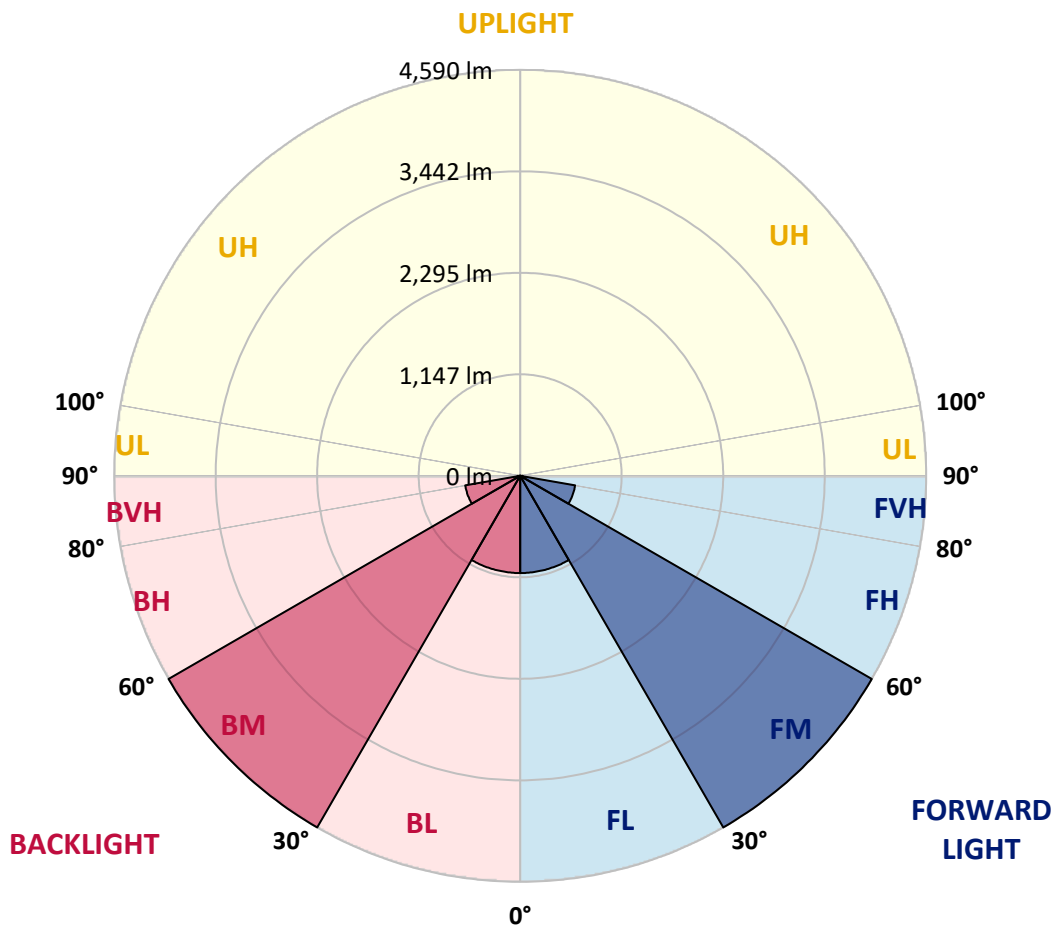
CATALOG NUMBER: GALN-SA2D-735-U-RW-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1099.2 | 8.7 | | | |
| FM (30°-60°) | 4589.9 | 36.1 | | | |
| FH (60°-80°) | 630.9 | 5.0 | | | G0/660 |
| FVH (80°-90°) | 29.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1099.2 | 8.7 | B3/2500 | | |
| BM (30°-60°) | 4589.9 | 36.1 | B3/5000 | | |
| BH (60°-80°) | 630.9 | 5.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 29.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 | 2122.6 |
| 2.5° | 2127.4 | 2105.3 | 2113.2 | 2117.9 | 2138.4 | 2136.8 | 2132.1 | 2138.4 | 2144.7 | 2146.3 | 2143.1 |
| 5° | 2125.8 | 2110.0 | 2116.3 | 2121.1 | 2141.5 | 2152.6 | 2149.4 | 2176.2 | 2195.1 | 2190.4 | 2214.0 |
| 7.5° | 2113.2 | 2122.6 | 2114.8 | 2138.4 | 2155.7 | 2182.5 | 2210.9 | 2236.1 | 2259.7 | 2286.5 | 2291.3 |
| 10° | 2141.5 | 2141.5 | 2155.7 | 2174.6 | 2220.3 | 2240.8 | 2281.8 | 2318.0 | 2363.7 | 2395.3 | 2382.6 |
| 12.5° | 2171.5 | 2176.2 | 2176.2 | 2225.1 | 2262.9 | 2308.6 | 2346.4 | 2395.3 | 2459.9 | 2497.7 | 2516.6 |
| 15° | 2201.4 | 2204.6 | 2220.3 | 2286.5 | 2343.3 | 2415.7 | 2450.4 | 2494.5 | 2530.8 | 2601.7 | 2603.3 |
| 17.5° | 2228.2 | 2245.6 | 2292.8 | 2366.9 | 2437.8 | 2507.1 | 2562.3 | 2608.0 | 2639.5 | 2667.9 | 2661.6 |
| 20° | 2329.1 | 2341.7 | 2390.5 | 2464.6 | 2570.2 | 2637.9 | 2656.8 | 2664.7 | 2685.2 | 2741.9 | 2724.6 |
| 22.5° | 2426.8 | 2431.5 | 2477.2 | 2590.7 | 2664.7 | 2754.5 | 2775.0 | 2770.3 | 2778.2 | 2792.4 | 2817.6 |
| 25° | 2527.6 | 2535.5 | 2598.5 | 2694.7 | 2798.7 | 2905.8 | 2923.2 | 2886.9 | 2875.9 | 2891.6 | 2893.2 |
| 27.5° | 2656.8 | 2658.4 | 2738.8 | 2822.3 | 2940.5 | 3041.3 | 3068.1 | 3039.8 | 2987.8 | 3000.4 | 3020.9 |
| 30° | 2820.7 | 2809.7 | 2890.1 | 3009.8 | 3134.3 | 3191.0 | 3236.7 | 3222.6 | 3165.8 | 3154.8 | 3137.5 |
| 32.5° | 3009.8 | 3013.0 | 3085.5 | 3216.3 | 3298.2 | 3392.8 | 3441.6 | 3418.0 | 3381.7 | 3362.8 | 3373.8 |
| 35° | 3276.1 | 3290.3 | 3339.2 | 3447.9 | 3580.3 | 3627.6 | 3704.8 | 3654.3 | 3559.8 | 3583.4 | 3603.9 |
| 37.5° | 3495.2 | 3536.2 | 3627.6 | 3756.8 | 3835.6 | 3922.2 | 3950.6 | 3882.8 | 3813.5 | 3785.1 | 3852.9 |
| 40° | 3830.8 | 3818.2 | 3919.1 | 4048.3 | 4164.9 | 4251.6 | 4215.3 | 4147.6 | 3975.8 | 3977.4 | 3996.3 |
| 42.5° | 4119.2 | 4125.5 | 4202.7 | 4357.2 | 4516.3 | 4569.9 | 4454.9 | 4289.4 | 4098.7 | 4078.2 | 4119.2 |
| 45° | 4361.9 | 4387.1 | 4431.2 | 4637.7 | 4793.7 | 4852.0 | 4639.2 | 4443.8 | 4188.5 | 4103.5 | 4171.2 |
| 47.5° | 4448.6 | 4489.5 | 4585.7 | 4774.8 | 4929.2 | 4976.5 | 4806.3 | 4525.8 | 4272.1 | 4133.4 | 4169.6 |
| 50° | 4461.2 | 4447.0 | 4604.6 | 4777.9 | 4913.4 | 5015.9 | 4866.2 | 4585.7 | 4251.6 | 4179.1 | 4168.1 |
| 52.5° | 4116.1 | 4185.4 | 4354.0 | 4592.0 | 4866.2 | 5030.0 | 4919.7 | 4618.7 | 4279.9 | 4198.0 | 4171.2 |
| 55° | 3331.3 | 3249.4 | 3556.6 | 3956.9 | 4461.2 | 4916.6 | 4900.8 | 4636.1 | 4297.3 | 4229.5 | 4193.3 |
| 57.5° | 1859.5 | 1883.1 | 2056.5 | 2491.4 | 3142.2 | 3898.6 | 4357.2 | 4453.3 | 4289.4 | 4250.0 | 4268.9 |
| 60° | 860.4 | 868.3 | 942.3 | 1145.6 | 1549.0 | 2210.9 | 2814.4 | 3427.4 | 3709.5 | 3766.2 | 3766.2 |
| 62.5° | 641.4 | 638.2 | 657.1 | 693.4 | 778.5 | 1016.4 | 1356.8 | 1843.7 | 2231.4 | 2502.4 | 2573.3 |
| 65° | 579.9 | 578.3 | 587.8 | 600.4 | 606.7 | 639.8 | 715.4 | 865.1 | 991.2 | 1063.7 | 1051.1 |
| 67.5° | 507.4 | 505.8 | 509.0 | 516.9 | 527.9 | 545.2 | 564.1 | 595.7 | 639.8 | 636.6 | 628.8 |
| 70° | 409.7 | 409.7 | 414.4 | 420.7 | 433.4 | 453.8 | 475.9 | 498.0 | 535.8 | 543.7 | 542.1 |
| 72.5° | 302.6 | 297.8 | 307.3 | 319.9 | 332.5 | 357.7 | 381.3 | 401.8 | 428.6 | 436.5 | 433.4 |
| 75° | 192.3 | 195.4 | 201.7 | 215.9 | 237.9 | 255.3 | 280.5 | 297.8 | 315.2 | 321.5 | 323.0 |
| 77.5° | 107.2 | 110.3 | 121.3 | 138.7 | 160.7 | 179.6 | 201.7 | 215.9 | 226.9 | 228.5 | 230.1 |
| 80° | 64.6 | 66.2 | 77.2 | 93.0 | 111.9 | 132.4 | 149.7 | 163.9 | 173.3 | 168.6 | 167.0 |
| 82.5° | 39.4 | 41.0 | 50.4 | 64.6 | 80.4 | 96.1 | 115.0 | 127.6 | 137.1 | 130.8 | 124.5 |
| 85° | 20.5 | 22.1 | 29.9 | 39.4 | 52.0 | 59.9 | 59.9 | 53.6 | 52.0 | 48.9 | 47.3 |
| 87.5° | 6.3 | 6.3 | 7.9 | 9.5 | 7.9 | 9.5 | 11.0 | 12.6 | 12.6 | 14.2 | 12.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)